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* * * * * Welcome to STN International * * * * *

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NEWS	3	May 12	EXTEND option available in structure searching
NEWS	4	May 12	Polymer links for the POLYLINK command completed in REGISTRY
NEWS	5	May 27	New UPM (Update Code Maximum) field for more efficient patent SDIs in Cplus
NEWS	6	May 27	Cplus super roles and document types searchable in REGISTRY
NEWS	7	Jun 28	Additional enzyme-catalyzed reactions added to CASREACT
NEWS	8	Jun 28	ANTE, AQUALINE, BIOENG, CIVILENG, ENVIROENG, MECHENG, and WATER from CSA now available on STN(R)
NEWS	9	Jul 12	BEILSTEIN enhanced with new display and select options, resulting in a closer connection to BABS
NEWS	10	Jul 30	BEILSTEIN on STN workshop to be held August 24 in conjunction with the 228th ACS National Meeting
NEWS	11	AUG 02	IFIPAT/IFIUDB/IFICDB reloaded with new search and display fields
NEWS	12	AUG 02	Cplus and CA patent records enhanced with European and Japan Patent Office Classifications
NEWS	13	AUG 02	STN User Update to be held August 22 in conjunction with the 228th ACS National Meeting
NEWS	14	AUG 02	The Analysis Edition of STN Express with Discover! (Version 7.01 for Windows) now available
NEWS	15	AUG 04	Pricing for the Save Answers for SciFinder Wizard within STN Express with Discover! will change September 1, 2004
NEWS	16	AUG 27	BIOCOMMERCE: Changes and enhancements to content coverage
NEWS	17	AUG 27	BIOTECHABS/BIOTECHDS: Two new display fields added for legal status data from INPADOC
NEWS	18	SEP 01	INPADOC: New family current-awareness alert (SDI) available
NEWS	19	SEP 01	New pricing for the Save Answers for SciFinder Wizard within STN Express with Discover!
NEWS	20	SEP 01	New display format, HITSTR, available in WPIDS/WPINDEX/WPIX
NEWS	21	SEP 14	STN Patent Forum to be held October 13, 2004, in Iselin, NJ
NEWS EXPRESS			JULY 30 CURRENT WINDOWS VERSION IS V7.01, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 11 AUGUST 2004
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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 15:04:54 ON 16 SEP 2004

=> file reg

COST IN U.S. DOLLARS

SINCE FILE
ENTRY

TOTAL
SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 15:05:03 ON 16 SEP 2004

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 15 SEP 2004 HIGHEST RN 745743-57-1

DICTIONARY FILE UPDATES: 15 SEP 2004 HIGHEST RN 745743-57-1

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

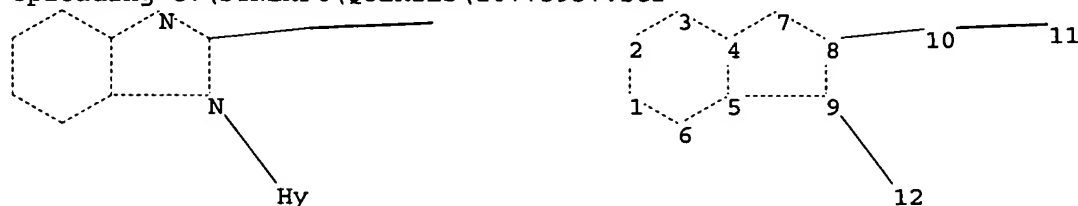
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:

<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

Uploading C:\STNEXP4\QUERIES\10773937.str



chain nodes :

10 12

ring nodes :

1 2 3 4 5 6 7 8 9

ring/chain nodes :

11

chain bonds :

8-10 9-12 10-11

ring bonds :

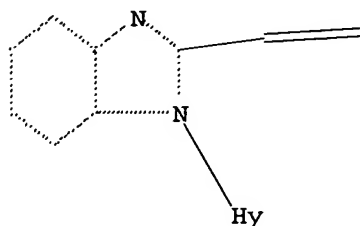
1-2 1-6 2-3 3-4 4-5 4-7 5-6 5-9 7-8 8-9

exact/norm bonds :
 1-2 1-6 2-3 3-4 4-5 4-7 5-6 5-9 7-8 8-9 9-12
 exact bonds :
 8-10 10-11
 isolated ring systems :
 containing 1 :

Match level :
 1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS
 11:CLASS 12:Atom
 Generic attributes :
 12:
 Saturation : Unsaturated
 Number of Carbon Atoms : less than 7
 Type of Ring System : Monocyclic

L1 STRUCTURE UPLOADED

=> dis l1
 L1 HAS NO ANSWERS
 L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1 sam
 SAMPLE SEARCH INITIATED 15:05:28 FILE 'REGISTRY'
 SAMPLE SCREEN SEARCH COMPLETED - 2862 TO ITERATE

34.9% PROCESSED 1000 ITERATIONS 6 ANSWERS
 INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
 SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**
 PROJECTED ITERATIONS: 54032 TO 60448
 PROJECTED ANSWERS: 95 TO 591

L2 6 SEA SSS SAM L1

=> s l1 full
 FULL SEARCH INITIATED 15:05:33 FILE 'REGISTRY'
 FULL SCREEN SEARCH COMPLETED - 55682 TO ITERATE

100.0% PROCESSED 55682 ITERATIONS 227 ANSWERS

SEARCH TIME: 00.00.01

L3 227 SEA SSS FUL L1

=> file hcaplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.44

156.07

FILE 'HCAPLUS' ENTERED AT 15:05:55 ON 16 SEP 2004

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FILE COVERS 1907 - 16 Sep 2004 VOL 141 ISS 12

FILE LAST UPDATED: 15 Sep 2004 (20040915/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l3

L4 10 L3

=> s l4 and pd<march 1998

18823074 PD<MARCH 1998

(PD<19980300)

L5 8 L4 AND PD<MARCH 1998

=> dis l5 1-8 bib abs hitstr

L5 ANSWER 1 OF 8 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1997:178231 HCAPLUS

DN 126:178961

TI Silver halide color photographic material containing sensitizing dye and magenta coupler

IN Nomya, Makoto; Ookusa, Hiroshi; Kawashima, Yasuhiko

PA Konishiroku Photo Ind, Japan

SO Jpn. Kokai Tokkyo Koho, 37 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	JP 08328217	A2	19961213	JP 1995-136712	19950602 <--
PRAI	JP 1995-136712		19950602		
GI					

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The title material, comprising a support coated with ≥ 1 photog. constituent layers, contains ≥ 1 sensitizing dye I [R11 = sulfoethyl; R12 = (substituted) alkyl, (substituted) alkenyl, (substituted) alkynyl; R13 = H, (substituted) alkyl, (substituted) aryl; Z12 = atoms required to form a (substituted) benzoxazole or naphthoxazole nucleus; X1 = counter ion; m = number required to control the charge of the mol.], ≥ 1 other sensitizing dye II [R21-24 = (substituted) alkyl, (substituted) alkenyl, (substituted) alkynyl, (substituted) aryl, (substituted) heterocycle; V, W, X, Y = H, electron-attractive group; X2 = counter ion; n = number required to control the charge of the mol.], ≥ 1 coupler III (R31 = H, substituent; R32 = Cl, alkoxy; R33 = substituent; R34-38 = H, halo; p = 1-5), and optional ≥ 1 compound IV (R41, R42 = H, alkyl, alkenyl, alkynyl, aryl, heterocycle; R43-45 H, substituent, R41 and R42, R43 and R44, and R44 and R45 may form a ring) in ≥ 1 of the layers. The material shows high sensitivity, low fog, and good storage stability.

IT 187037-38-3

RL: DEV (Device component use); USES (Uses)
(silver halide color photog. material containing sensitizing dye, magenta coupler, and optional pyridine derivative)

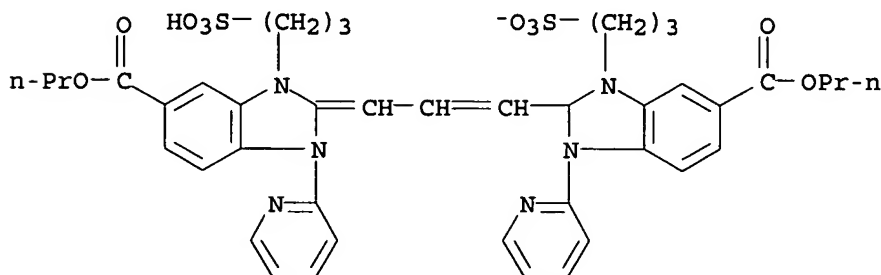
RN 187037-38-3 HCAPLUS

CN 1H-Benzimidazolium, 2-[3-[1,3-dihydro-5-(propoxycarbonyl)-1-(2-pyridinyl)-3-(3-sulfopropyl)-2H-benzimidazol-2-ylidene]-1-propenyl]-5-(propoxycarbonyl)-1-(2-pyridinyl)-3-(3-sulfopropyl)-, inner salt, compd. with pyridine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 187037-37-2

CMF C41 H44 N6 O10 S2

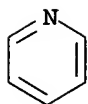


ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

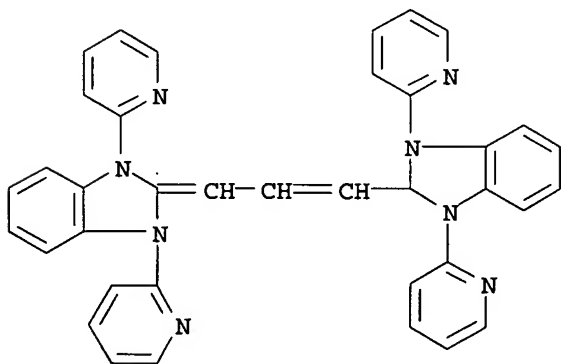
CM 2

CRN 110-86-1

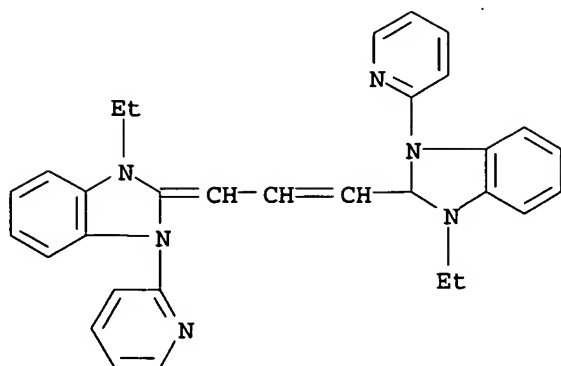
CMF C5 H5 N



L5 ANSWER 2 OF 8 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 1978:433837 HCAPLUS
 DN 89:33837
 TI Structure of molecules of polymethine dyes and their laser properties
 AU Przhonskaya, O. V.; Tikhonov, E. A.
 CS USSR
 SO Optika i Spektroskopiya (1978), 44(3), 480-5
 CODEN: OPSPAM; ISSN: 0030-4034
 DT Journal
 LA Russian
 AB The results are presented of an investigation directed to the optimization of parameters of the active medium of lasers based on sym. polymethine dyes. The structural elements of these mols. which affect the value of the Stokes shift of the maximum of the absorption and luminescence bands, their halfwidths, and quantum yields were determined. The conclusions obtained permit the synthesis of a dye with a lower threshold and an increase in the range of tuning in a dispersion resonator.
 IT 47857-88-5 66918-06-7
 RL: PRP (Properties)
 (laser properties of)
 RN 47857-88-5 HCAPLUS
 CN 1H-Benzimidazolium, 2-[3-(1,3-dihydro-1,3-di-2-pyridinyl-2H-benzimidazol-2-ylidene)-1-propenyl]-1,3-di-2-pyridinyl- (9CI) (CA INDEX NAME)

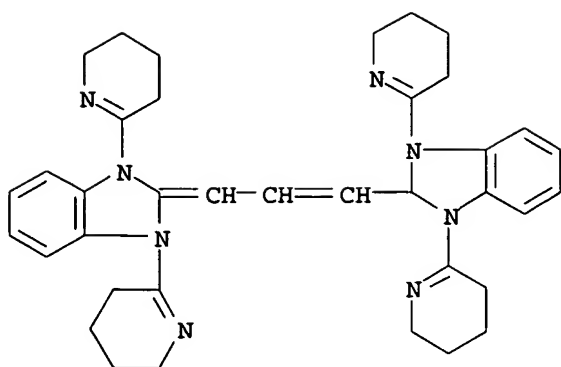


ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 66918-06-7 HCAPLUS
 CN 1H-Benzimidazolium, 1-ethyl-2-[3-[1-ethyl-1,3-dihydro-3-(2-pyridinyl)-2H-benzimidazol-2-ylidene]-1-propenyl]-3-(2-pyridinyl)- (9CI) (CA INDEX NAME)



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

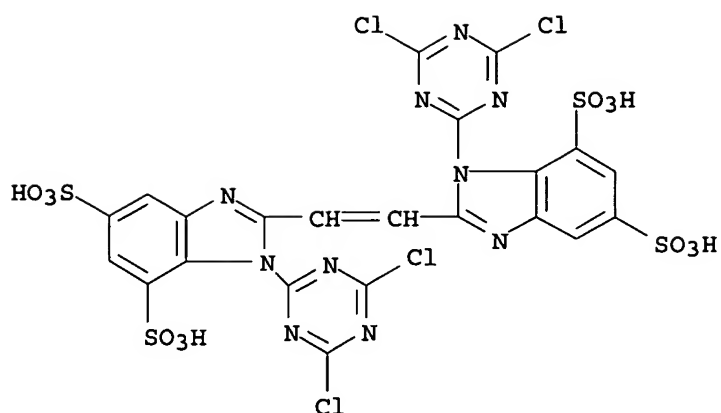
L5 ANSWER 3 OF 8 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 1975:24123 HCAPLUS
 DN 82:24123
 TI Two-photon absorption spectra of organic dye molecules
 AU Aslanidi, E. B.; Tikhonov, E. A.
 CS USSR
 SO Optika i Spektroskopiya (1974), 37(4), 784-5
 CODEN: OPSPAM; ISSN: 0030-4034
 DT Journal
 LA Russian
 AB One- and 2-photon absorption spectra were given of Rhodamine 6G and imidocarbocyanine in alc. solns. by using the fluorescence method. The 2-photon absorption spectra of the both compds. showed 2 principal maximum, one coinciding with the vibronic transition of the short-wave wing of the long-wave one-photon absorption band and the other falling upon the region of one-photon transition to higher singlet states. The spectral dependence of 2-photon absorption probability was qual. discussed.
 IT 54375-46-1
 RL: PRP (Properties)
 (photon absorption by, single and multi-)
 RN 54375-46-1 HCAPLUS
 CN 1H-Benzimidazolium, 2-[3-[1,3-dihydro-1,3-bis(3,4,5,6-tetrahydro-2-pyridinyl)-2H-benzimidazol-2-ylidene]-1-propenyl]-1,3-bis(3,4,5,6-tetrahydro-2-pyridinyl)-, iodide (9CI) (CA INDEX NAME)



● I⁻

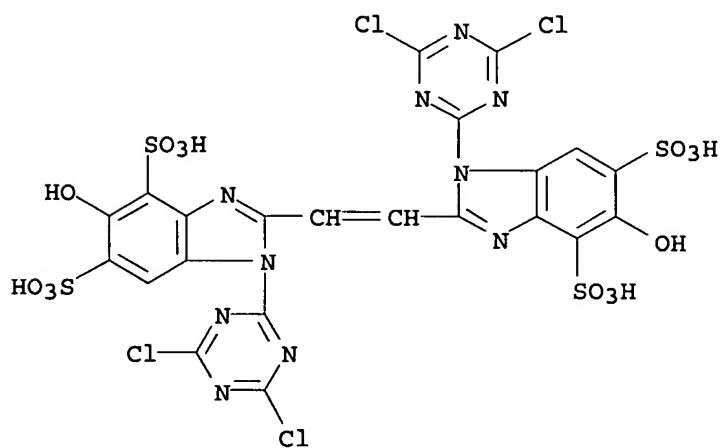
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L5 ANSWER 4 OF 8 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 1974:522753 HCAPLUS
 DN 81:122753
 TI Comparative studies on washable and permanent optical brighteners derived from benzimidazole. I. Preparation of some benzimidazole derivatives and study of their properties
 AU Salem, A. S. G.; Shawki, M.; Farag, A. A.; Selim, M. H.
 CS Chem. Eng. Dep., Univ. Alexandria, Alexandria, Egypt
 SO Kolorisztikai Ertesito (1974), 16(3/4), 46-57
 CODEN: KOERA9; ISSN: 0023-2939
 DT Journal
 LA English
 AB Benzimidazole compds. [I, R = OH, SO₃H; R₁, R₂ = H, SO₃H; R₃ = H, Me, dichlorotriazinyl, chloro(sulfoanilino)triazinyl] were prepared, their solution in H₂O, stability of the triazinyl derivs. in alkaline medium, and their rates of exhaustion were determined and showed that the application of I as fluorescent whiteners is possible. Thus, I(R = R₁ = R₂ = R₃ = H) was dissolved in H₂SO₄ containing oleum and heated at 60.deg. for 45 min to give fluorescent whitener I(R = 5-SO₃H) [52736-69-3]. The other I were similarly prepared
 IT 52736-66-0P 52736-67-1P 52736-68-2P
 52871-94-0P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 52736-66-0 HCAPLUS
 CN 1H-Benzimidazole-5,7-disulfonic acid, 2,2'-(1,2-ethenediyl)bis[1-(4,6-dichloro-1,3,5-triazin-2-yl)- (9CI) (CA INDEX NAME)]



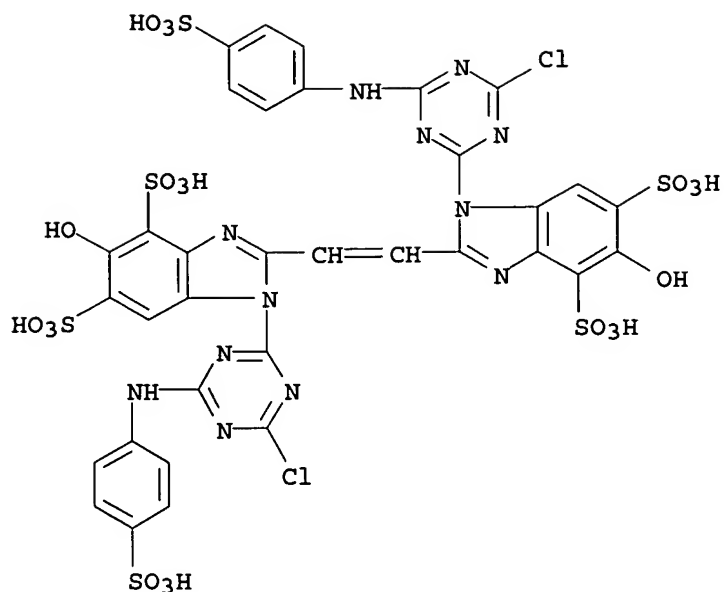
RN 52736-67-1 HCAPLUS

CN 1H-Benzimidazole-4,6-disulfonic acid, 2,2'-(1,2-ethenediyl)bis[1-(4,6-dichloro-1,3,5-triazin-2-yl)-5-hydroxy- (9CI) (CA INDEX NAME)



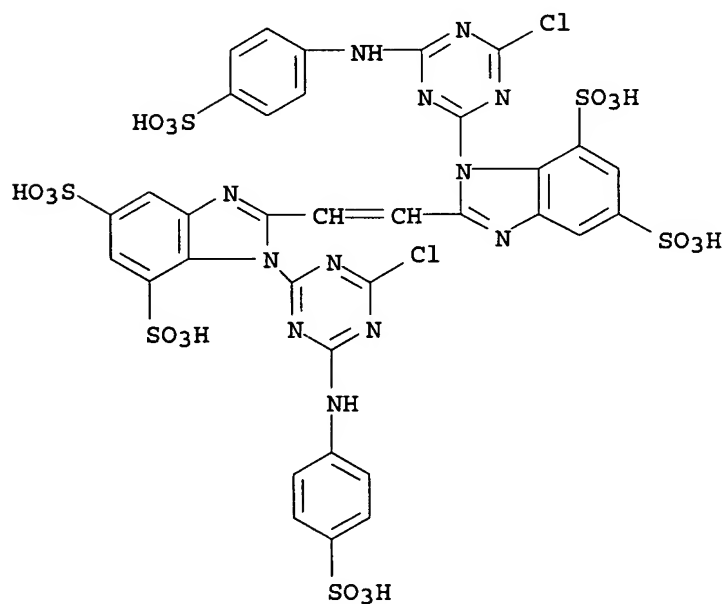
RN 52736-68-2 HCAPLUS

CN 1H-Benzimidazole-4,6-disulfonic acid, 2,2'-(1,2-ethenediyl)bis[1-[4-chloro-6-[(4-sulfophenyl)amino]-1,3,5-triazin-2-yl]-5-hydroxy- (9CI) (CA INDEX NAME)



RN 52871-94-0 HCAPLUS

CN 1H-Benzimidazole-5,7-disulfonic acid, 2,2'-(1,2-ethenediyl)bis[1-[4-chloro-6-[(4-sulfophenyl)amino]-1,3,5-triazin-2-yl]- (9CI) (CA INDEX NAME)



L5 ANSWER 5 OF 8 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1972:541468 HCAPLUS

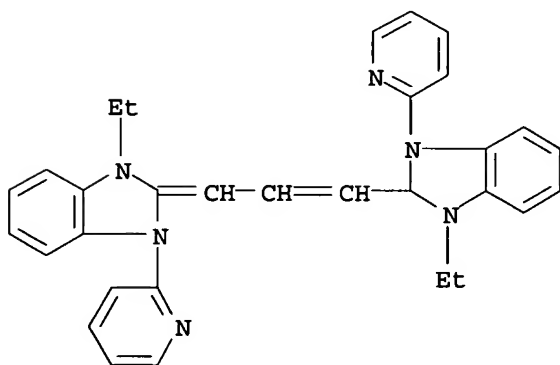
DN 77:141468

TI Synthesis of benzimidazole derivatives. V. Pyridylbenzimidazoles and cyanine dyes obtained from them

AU Zubarovskii, V. M.; Lepikhova, S. V.

CS Inst. Org. Khim., Kiev, USSR

SO Khimiya Geterotsiklicheskikh Soedinenii (1972), (5), 687-90
 CODEN: KGSSAQ; ISSN: 0132-6244
 DT Journal
 LA Russian
 AB Reacting N-ethyl-4-(2-pyridyl)-1,2-phenylenediamine with AcCl in PhMe solution gave 1-ethyl-2-methyl-5-(2-pyridyl)benzimidazole (I) [36635-98-0]. I was iodoethylated to 1,3-diethyl-2-methyl-5-(2-pyridyl)benzimidazolium monoiodide (II) [36635-99-1]. II was reacted with 3-ethyl-5-acetanilidomethylenerhodanine in HCONH₂ containing NEt₃ to give 3-ethyl-5-[2-[1,3-diethyl-5-(2-pyridyl)-2-benzimidazolinyldiene]ethylidene]thiazolidine-2-thione-4-one (III) [36636-00-7] which absorbs light strongly at 521 nm. Similarly starting with substituted o-phenylenediamines other title dyes, such as IV which absorbs at 536 nm, were prepared
 IT 38794-13-7P 38794-14-8P 38794-15-9P
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)
 RN 38794-13-7 HCAPLUS
 CN 1H-Benzimidazolium, 1-ethyl-2-[3-[1-ethyl-1,3-dihydro-3-(2-pyridinyl)-2H-benzimidazol-2-ylidene]-1-propenyl]-3-(2-pyridinyl)-, iodide (9CI) (CA INDEX NAME)



● I⁻

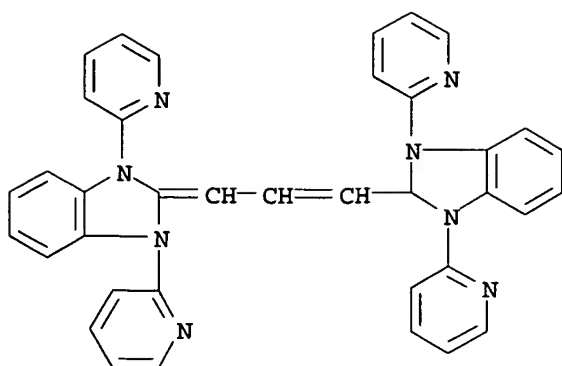
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 38794-14-8 HCAPLUS
 CN 1H-Benzimidazolium, 2-[3-(1,3-dihydro-1,3-di-2-pyridinyl-2H-benzimidazol-2-ylidene)-1-propenyl]-1,3-di-2-pyridinyl-, perchlorate (9CI) (CA INDEX NAME)

CM 1

CRN 47857-88-5

CMF C37 H27 N8

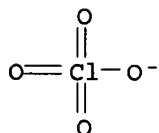


ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

CM 2

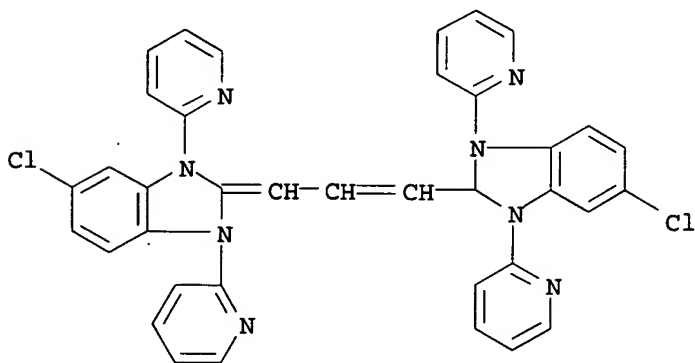
CRN 14797-73-0

CMF Cl O4



RN 38794-15-9 HCAPLUS

CN 1H-Benzimidazolium, 5-chloro-2-[3-(5-chloro-1,3-dihydro-1,3-di-2-pyridinyl-2H-benzimidazol-2-ylidene)-1-propenyl]-1,3-di-2-pyridinyl-, iodide (9CI)
(CA INDEX NAME)



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L5 ANSWER 6 OF 8 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1969:526007 HCAPLUS
 DN 71:126007
 TI Benzimidazole carbocyanines
 IN Gandino, Mario; Merli, Paolo; Turilli, Oreste
 PA Ferrania Societa per Azioni
 SO U.S., 4 pp.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 3443955	A	19690513	US 1966-551512	19660520 <--
	BE 678673	A	19660901	BE 1966-678673	19660330 <--
PRAI	IT 1965-17465		19650521		

GI For diagram(s), see printed CA Issue.

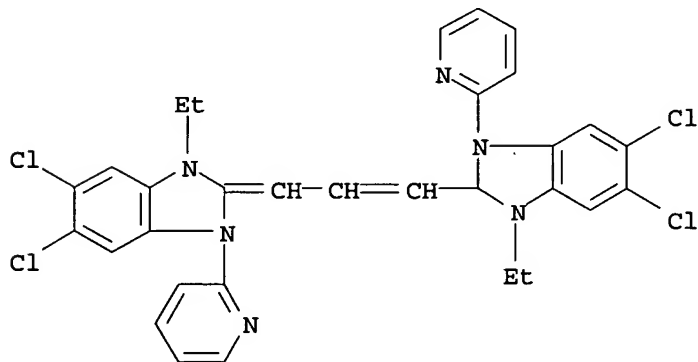
AB The title compds. (I) are prepared from II. Thus, 2-aminopyridine (QNH₂) is treated with 2,4,5-Cl₃C₆H₂NO₂ to give 4,5,2-Cl₂(O₂N)C₆H₂NHQ (m. 156°) which is converted to 5,6-dichloro-2-methyl - 1 - (2-pyridyl)benzimidazole (m. 127-9°) and quaternized to give II. A mixture of 2.17 g. II, 25 ml. PhNO₂, and 5 ml. HC(OEt)₃ is refluxed for 3 hrs. to give I (X = NQ, R = R' = Cl, Y = iodine), λ_{max} 5240 Å. II and 2-(formylmethylene)-3-ethyl - 5-methoxybenzoselenazole give I (X = Se, R = OMe, R₁ = H, Y = ClO₄), λ_{max} 5470 Å. Similarly prepared are the following, I (Y = iodine) [X, R, R₁, and λ_{max} (Å.) given]: S, Me, Me, 5390; Se, Me, Me, 5430; S, Cl, H, 5300; Se, Me, H, 5380; S, Me, H, 5350. Similarly were prepared III (λ_{max} 4720 Å.) and IV, λ_{max} 4970 Å.

IT 18018-26-3P 18018-27-4P 18018-29-6P

RL: IMF (Industrial manufacture); PREP (Preparation)
 (preparation of)

RN 18018-26-3 HCAPLUS

CN Benzimidazolium, 5,6-dichloro-2-[3-[5,6-dichloro-1-ethyl-3-(2-pyridyl)-2-benzimidazolinyldene]propenyl]-3-ethyl-1-(2-pyridyl)-, iodide (8CI) (CA INDEX NAME)



● I⁻

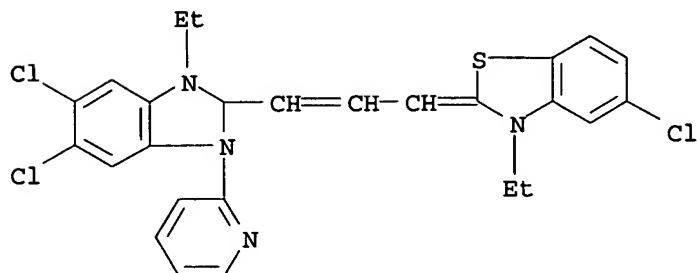
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 18018-27-4 HCAPLUS

CN Benzimidazolium, 5,6-dichloro-2-[3-(5-chloro-3-ethyl-2-

Davis -10/773,937

benzothiazolinylidene)propenyl]-3-ethyl-1-(2-pyridyl)-, iodide (8CI) (CA INDEX NAME)

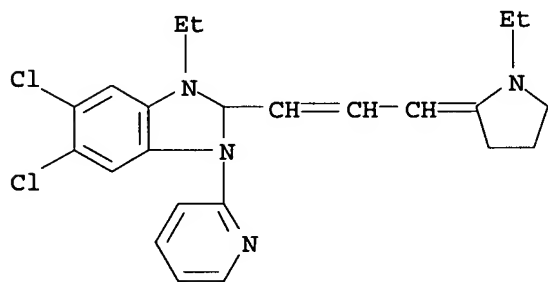


● I⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 18018-29-6 HCAPLUS

CN Benzimidazolium, 5,6-dichloro-3-ethyl-2-[3-(1-ethyl-2-pyrrolidinylidene)propenyl]-1-(2-pyridyl)-, iodide (8CI) (CA INDEX NAME)



● I⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L5 ANSWER 7 OF 8 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1969:440236 HCAPLUS

DN 71:40236

TI Benzimidazacarbocyanines

IN Gandino, Mario; Baldassarri, Agostino

PA Ferrania Societa per Azioni

SO Fr., 4 pp.

CODEN: FRXXAK

DT Patent

LA French

FAN.CNT 1

PATENT NO.

KIND

DATE

APPLICATION NO.

DATE

PI FR 1525450

19680517

<--

DE 1569845
GB 1191534DE
GB

PRAI IT

19660518

GI For diagram(s), see printed CA Issue.

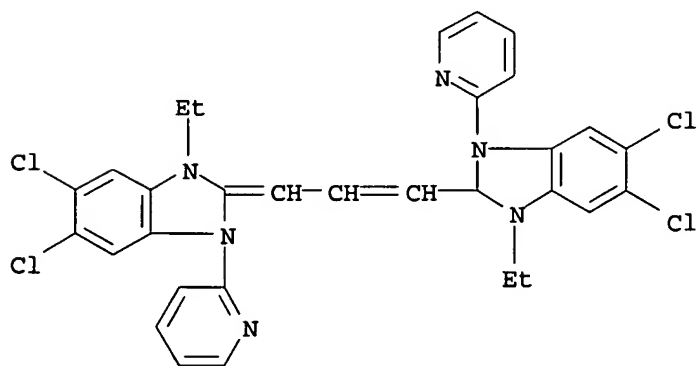
AB The title dyes (I) are prepared in improved yield and (or) rate by condensation with HC(OEt)₃ in 1-Cl₁₀H₇Cl. Thus, 3 g. 1,3-diethyl-2-methyl-5,6-dichlorobenzimidazolium iodide was dissolved in 30 ml. 1-Cl₁₀H₇Cl, treated with 3 ml. HC(OEt)₃, refluxed for 30 min., cooled, diluted with Et₂O, washed (Et₂O) until the washings were colorless, and washed on the filter with H₂O at 50°, followed by MeOH, to give 1 g. (40%) I (R₁ = Et, R₂ = H, R₃ = R₄ = Cl, X = iodide), small bronzy prisms (MeOH), λ_{maximum} (EtOH) 517 mμ. A 2-hr. reaction in PhNO₂ gave only 30% yield. Similarly obtained were the following I [R₁, R₂, R₃, R₄, X, reflux time in hrs., color (solvent), λ_{maximum} in mμ, % yield, and % yield in Ph-NO₂ (time in hrs.) given]: Et, H, H, Cl, iodide, 0.5, brilliant red (EtOH), 507, 32, 24 (1.5); Et, H, H, Ac, iodide, 1, green (EtOH), 521, 30, 24 (2); AcOCH₂CH₂, H, Cl, Cl, Br, 0.67, green (EtOH), 519, 36 27 (1); Et, H, H, NO₂, iodide, 1, blue-violet (MeOH), 540, 59, 44.5 (3); Et, Br, H, Br, iodide, 1, amaranthine (MeOH), 511, 39, 15 (4); Et, H, H, H, iodide, 2, red-violet (MeOH), 500, 29, 16 (4); 2-pyridyl, H, Cl, Cl, iodide, 1, green-gold (MeOH), 525, 33.5, -; Ph, H, H, MeO, iodide, 3, violet (EtOH-Et₂O), 519, 23.5, -; Et, H, H, Me, iodide, 6, red (EtOH), 523, 39, -.

IT 18018-26-3P

RL: IMF (Industrial manufacture); PREP (Preparation)
(preparation of)

RN 18018-26-3 HCAPLUS

CN Benzimidazolium, 5,6-dichloro-2-[3-[5,6-dichloro-1-ethyl-3-(2-pyridyl)-2-benzimidazolinylidene]propenyl]-3-ethyl-1-(2-pyridyl)-, iodide (8CI) (CA INDEX NAME)

● I⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L5 ANSWER 8 OF 8 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1968:115712 HCAPLUS

DN 68:115712

TI Cyanine dyes from 1-(2-pyridyl)-2-methylbenzimidazoles

IN Gandino, Mario; Merli, Paolo; Turilli, Oreste

PA Ferrania Societa per Azioni

SO Fr., 5 pp.
 CODEN: FRXXAK
 DT Patent
 LA French
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 1491399		19670811		<--
	GB 1146465			GB	
PRAI	IT		19650521		

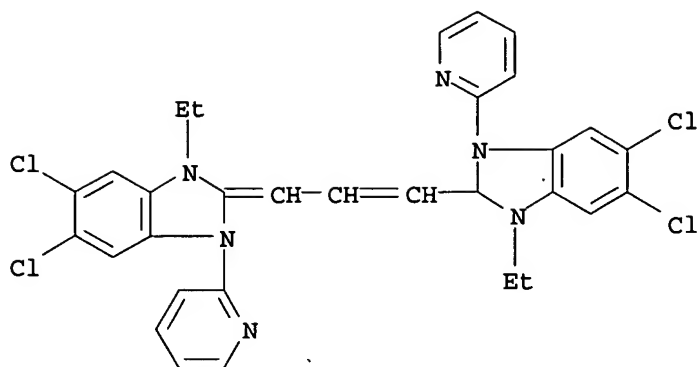
GI For diagram(s), see printed CA Issue.

AB 5,6-Dichloro-2-methyl-1-(2-pyridyl)benzimidazole (I) is a new intermediate for photographic sensitizing dyes of the general formula II, where X is S, Se, or N (2-pyridyl-substituted). A solution of 226 g. 2,4,5-Cl₃C₆H₂NO₂ and 169 g. 2-aminopyridine (III) is heated at 145° for 96 hrs., cooled, treated with 5 l. aqueous 15% NaOH, and distilled to remove III to give 4,5-dichloro-2-nitro-N-(2-pyridyl)aniline (IV), red-brown crystals, m. 156° (EtOH). A solution of 28.4 g. IV and 30 ml. HOAc is treated portionwise at 70-80° with 18.5 g. Zn powder, stirred for 2 hrs., treated with 20 ml. Ac₂O, refluxed for 1 hr., filtered hot, cooled, made alkaline with aqueous NH₄OH, and extracted with Et₂O to give I, b₂₂ 290-330°, m. 127-9° (ligroine). A mixture of 2.78 g. I and 3 ml. EtI is heated in a sealed tube at 100° for 8 hrs., cooled, and the solid triturated with a mixture of Me₂CO and Et₂O to give I.EtI (V). A mixture of 2.17 g. V, 25 ml. PhNO₂, and 5 ml. CH(OEt)₃ is refluxed for 3 hrs., cooled, precipitated with Et₂O, and recrystd. from EtOH to give II [X = 2-pyridyl-substituted N, R = R₁ = Cl, Y = iodide], λ_{maximum} 524 nm. A mixture of 2.17 g. V, 1.4 g. 2-(aldomethylene)-3-ethyl-5-methoxybenzoselenazole, and 20 ml. pyridine is refluxed, treated with 2 ml. Ac₂O, cooled, poured into Et₂O, and the precipitate dissolved in EtOH and precipitated with NH₄ClO₄ to give II (X = Se, R = H, R₁ = MeO, Y = ClO₄), λ_{maximum} 547 nm. Similarly, other II (Y = iodide) are prepared (X, R, R₁, and λ_{maximum} in nm. given): S, Me, Me, 539; Se, Me, Me, 543; S, H, Cl, 530; Se, H, Me, 538; S, H, Me, 535. Also prepared is the carbocyanine dye from V and 2-(aldomethylene)-1-ethylpyrrolidine (λ_{maximum} = 472 nm.) and the merocyanine dye from V and 5-(acetanilidomethylene)-3-ethyl-2-thio-4-oxazolidinone (λ_{maximum} 497 nm.).

IT 18018-26-3P 18018-27-4P 18018-29-6P
 RL: IMF (Industrial manufacture); PREP (Preparation)
 (preparation of)

RN 18018-26-3 HCAPLUS

CN Benzimidazolium, 5,6-dichloro-2-[3-[5,6-dichloro-1-ethyl-3-(2-pyridyl)-2-benzimidazolinyldene]propenyl]-3-ethyl-1-(2-pyridyl)-, iodide (8CI) (CA INDEX NAME)

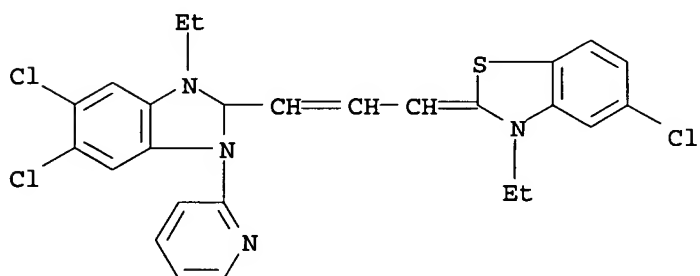


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ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 18018-27-4 HCAPLUS

CN Benzimidazolium, 5,6-dichloro-2-[3-(5-chloro-3-ethyl-2-benzothiazolinyldene)propenyl]-3-ethyl-1-(2-pyridyl)-, iodide (8CI) (CA INDEX NAME)

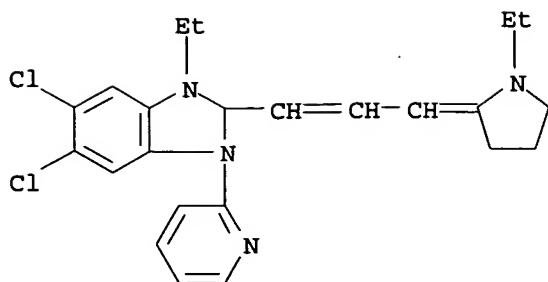


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ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 18018-29-6 HCAPLUS

CN Benzimidazolium, 5,6-dichloro-3-ethyl-2-[3-(1-ethyl-2-pyrrolidinyldene)propenyl]-1-(2-pyridyl)-, iodide (8CI) (CA INDEX NAME)

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ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

=> s l4 not l5

L6 2 L4 NOT L5

=> dis l6 bib abs

L6 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2001:792334 HCAPLUS

DN 135:344480

TI Preparation of benzimidazole cyclooxygenase-2 inhibitors

IN Okumura, Yoshiyuki; Murata, Yoshinori; Mano, Takashi

PA Pfizer Inc., USA

SO U.S., 29 pp.

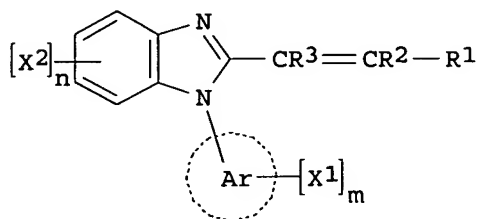
CODEN: USXXAM

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	US 6310079	B1	20011030	US 1999-244875	19990205
	US 2003013886	A1	20030116	US 2001-924351	20010808
	US 6713482	B2	20040330		
PRAI	WO 1998-IB164	W	19980211		
	US 1999-244875	A3	19990205		
OS	MARPAT 135:344480				
GI					



I

AB The title compds. [I; Ar = 6-membered monocyclic heteroaryl having one N

atom; X1, X2 = halo, alkyl, OH, etc.; R1 = (un)substituted Ph, 5-membered monocyclic heteroaryl; R2, R3 = H, halo, alkyl, etc.; or R1 and R2 can form, together with the carbon atom to which they are attached, a cycloalkyl ring; m = 0-5; n = 0-4] and their pharmaceutically acceptable salts, useful as analgesics and anti-inflammatory agents, were prepared Thus, refluxing N-(2-pyridyl)-o-phenylenediamine with (E)-cinnamoyl chloride in PhMe afforded 41% (E)-I [Ar = 2-pyridyl; X1, X2 = H; R1 = Ph; R1, R2 = H]. Some compds. I showed low IC50 values of 0.01-1.0 μ M against COX-2.

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-6.30	-6.30

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